

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 August 2004 (26.08.2004)

PCT

(10) International Publication Number
WO 2004/072631 A3

(51) International Patent Classification⁷: G01N 23/00 MACHINES CORPORATION [US/US]; 1133 Westchester Avenue, White Plains, NY 10604 (US).

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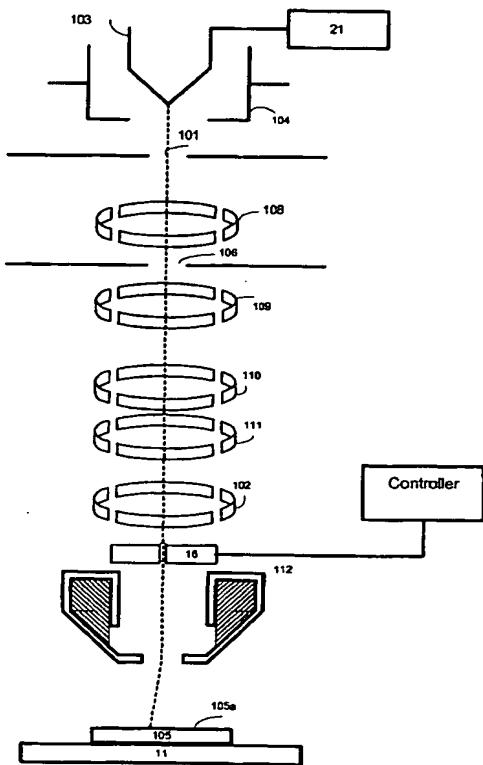
(26) Publication Language: English (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR,

(30) Priority Data: 60/445,780 5 February 2003 (05.02.2003) US

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(54) Title: A METHOD FOR MEASURING AND REDUCING ANGULAR DEVIATIONS OF A CHARGED PARTICLE BEAM



(57) **Abstract:** The invention provides a system and method for determining an angular deviation of a charged particle beam and for calibrating a charged particle beam system that are based upon multiple measurements of a test object that include sidewalls of high sidewall angle uniformity. A path of a charged particle beam is controlled by multiple beam control parameters. The method determines the parameters that will substantially reduce the angular deviation and applies them in order to calibrate a charged particle beam system.